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SOURCE Newspapers as indicated.

NEW MACHINERY, TOOLS
HELP PRODUCTION RISE

MINING COMBINES PRODUCED -- *Kommunist*, No 220, 16 Sep 48

The Gorlovka Machine-Building Plant imeni Kirov turned out new sample models of S-29 and GUK-1 mining combines which were designed by "Giprcuglemash" of the Ministry of Coal Industry, Western Regions, USSR. Experiments in the mines brought favorable results. Serial production of these combines will begin soon. The Plant imeni Kirov has also developed an original design for a combine for use in steep coal seams.

Leninskoye Znamya, No 181, 10 Sep 48

The Machine-Building Plant imeni Kirov in Kopeysk, producer of mining equipment, has constructed the first Soviet self-propelled excavator, the ESh-1, having a capacity of 250 cubic meters per hour. The excavator has undergone successful plant tests and is now in operation at the No 3 - 4 open-pit mine of the "Korkinugol" Trust in the Chelyabinsk coal basin.

WATCH INDUSTRY GETS NEW TOOLS -- *Zarya Vostoka*, No 190, 22 Sep 48

The first automatic and semiautomatic machine tools for the watch industry have been produced in the laboratories of the Moscow Higher Technical School imeni Bauman. The machine tools, designed by Prof G. A. Shaumyan, Laureate of a Stalin Prize, are very precise in performance, and will mechanize the most complex production processes. Experimental samples have been installed at the First and Second Watch Plants of Moscow. These machine tools have doubled the output of parts for "Pobeda" and "Salyut" watches, almost completely eliminated waste, and reduced the need for skilled labor.

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Pravda Ukrainsk, No 227, 24 Sep 48

The Leningrad Machine-Tool Building Plant recently began production of new duplicator milling machines.

KHARKOV PLANT COMPLETES NEW TURBINE -- Pravda Ukrainsk, No 221, 17 Sep 48

A new and powerful turbine has been completed at the Turbogenerator Plant imeni Kirov for the Krasnogorsk Power Plant in the Urals. The cylinder and other parts, weighing 80 tons, have already been shipped to Krasnogorsk.

"GORNYAK" PLANT EXPANDS PRODUCTION -- Zarya Vostoka, No 177, 4 Sep 48

The main products of the "Gornjak" Machine-Building Plant in Kutaisi are RTU-30 and Leninets conveyers and various other types of machinery. Serial production of the Ak-2 electric locomotives has recently begun.

The plant exceeded the 9-month plan by the end of August and its production program is being expanded. The foundry has started production of cast-iron bushings for the ChTZ tractor.

Plant designers have worked out a plan for a new, improved type of bucket for the LKD-107 excavator. The new-type bucket was sent to the Ufa Construction Administration early in August for testing and was considered satisfactory.

PETROZAVODSK PLANT GETS NEW BUILDINGS -- Leninskoye Znamya, No 190, 24 Sep 48

The new buildings of the Petrozavodsk Metal Works house a mechanized assembly shop, a foundry, a galvanizing shop, a carpenter and model shop, a forge, and a tin-plating shop. Seventy percent of the machines have been set up in the mechanized assembly shop. These include lathes, grinding machines, planing machines, and drills.

A blast furnace and two smelting furnaces for aluminum have been constructed and put into operation in the foundry.

Assembly of equipment has been completed in the forge and the tin-plating shop. A large 20-ton drawing press has been prepared and will be put into operation in November. Assembly of equipment in all shops will be completed by 1 January 1949.

The plant will produce internal-combustion engines for fishing boats and all types of ferrous and nonferrous castings. In July it will start production of cast-iron furnace implements, hubs for cart wheels, and aluminum dishes.

Although the shops are not yet completely equipped, the plant has already produced a million and a half rubles' worth of goods this year, while the 1948 plan calls for only 1,832,000 rubles' worth of goods.

HIGH-SPEED METAL CUTTING ADOPTED -- Kazakhstanskaya Pravda, No 191, 25 Sep 48

The lathe shop of the Petropavlovsk Plant imeni Molotov has adopted high-speed metal machining. The cutting speed on one lathe has increased from 75 meters per minute to 280 meters per minute. Formerly a turner was able to tool 100 pieces during an 8 hour period; now he produces the same quantity in $3\frac{1}{2}$ hours.

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MARIUPOL' RAIL-ROLLING SHOP TO OPEN -- Pravda Ukrainskaya, No 221, 17 Sep 48

Final work is being done at the construction area of the Mariupol' rail-rolling shop. The rail mills, saws for cutting metal, rolling-mill trains, and electric installations have already been tested.

WINDMILL GENERATORS FOR KAZAKHSTAN -- Kazakhstanskaya Pravda, No 191, 25 Sep 48

Serial production of high-speed windmills has been developed in the Ural Machine Plant of the Ministry of State Farms, USSR. The weight of the motor does not exceed 350 kilograms. This makes it possible to move the equipment to distant points. It is not necessary to have a special foundation for this machinery. The motor can easily be assembled by three persons, in 4 hours or less.

Especially in Kazakhstan, where the average yearly wind velocity amounts to 4.5 to 5 meters per second, windmills are used to pump water from deep wells and to operate electrical machinery. This powerful source of energy is called "blue coal."

STATIONARY STEAM ENGINES PRODUCED -- Sovetskaya Latviya, No 213, 8 Sep 48

The Lyudinovo Steam Engine Plant in Kaluga Oblast has begun the production of Sk-125 stationary, industrial steam engines.

PLANT MAKES FARM MACHINERY PARTS -- Kazakhstanskaya Pravda, No 106, 3 Jun 49

Workers of the Makinsk Plant imeni Lenin have exceeded their plan for the production of agricultural machinery parts. Recently they made three milling machines which will be used at the plant in the production of piston rings.

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